

TREC-IS 2020-A Task 2 Notebook Evaluator v2.4
Run: elmo_all_tfidf (elmo_all_tfidf_brf.2020A.task1.run)

EVALUATOR: Alerting Performance
Overall performance

> High Importance Alert Worth: -0.20898345153664144
> Low Importance Alert Worth: -0.13198885076667824
> Accumulated Alert Worth: -0.17048615115165983

EVALUATOR: nDCG and Priority
Overall performance

> nDCG: 0.42973990576833676

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.07416813241177539
> Information Type Recall (positive class, multi-type, macro): 0.4904949882893635
> Information Type F1 (positive class, multi-type, macro): 0.10357113933734524
> Information Type Accuracy (overall, multi-type, macro): 0.807242483532661
> High Importance Information Type Precision (positive class, multi-type, macro): 0.05040078110988929
> High Importance Information Type Recall (positive class, multi-type, macro): 0.5577056598795729
> High Importance Information Type F1 (positive class, multi-type, macro): 0.08813646821828384
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.8183391946784438
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.09454014781339204
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.43288584121204116
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.11680085743939787
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7977310168362756

EVALUATOR: Information Priority Level
Overall Performance

> Priority Label Prediction (F1, macro): 0.19127380882854159
> Priority Label Prediction High Importance (F1, macro): 0.17366047072970858
> Priority Label Prediction Low Importance (F1, macro): 0.2063709557703984

LATEX

elmo_all_tfidf & 0.4297 & -0.2090 & -0.1705 & 0.0881 & 0.1036 & 0.8072 & 0.1737 & 0.1913 \\

TREC-IS 2020-A Task 2 Notebook Evaluator v2.4

Run: elmo_all_tfidf (elmo_all_tfidf_brf.2020A.task1.run)

EVALUATION: Information Type Categorization (Multi-type)
Per Event Performance

athensEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.0680679914327945
Information Type Recall (positive class, multi-type, macro): 0.36163836163836166
Information Type F1 (positive class, multi-type, macro): 0.10054059277538117
Information Type Accuracy (overall, multi-type, macro): 0.8326557163766466
High Importance Information Type Precision (positive class, multi-type, macro): 0.027490942127420953
High Importance Information Type Recall (positive class, multi-type, macro): 0.41666666666666667
High Importance Information Type F1 (positive class, multi-type, macro): 0.04931245366938473
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7840028188865399
Low Importance Information Type Precision (positive class, multi-type, macro): 0.10284831940882896
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3144712430426716
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14445042629480673
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8743581999395953

baltimoreFlashFlood2020

Information Type Precision (positive class, multi-type, macro): 0.0008741258741258741
Information Type Recall (positive class, multi-type, macro): 0.07692307692307693
Information Type F1 (positive class, multi-type, macro): 0.001728608470181504
Information Type Accuracy (overall, multi-type, macro): 0.8246678694439888
High Importance Information Type Precision (positive class, multi-type, macro): 0.001893939393939394
High Importance Information Type Recall (positive class, multi-type, macro): 0.16666666666666666
High Importance Information Type F1 (positive class, multi-type, macro): 0.003745318352059925
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8781094527363185
Low Importance Information Type Precision (positive class, multi-type, macro): 0.0
Low Importance Information Type Recall (positive class, multi-type, macro): 0.0
Low Importance Information Type F1 (positive class, multi-type, macro): 0.0
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7788607980505635

brooklynBlockPartyShooting2020

Information Type Precision (positive class, multi-type, macro): 0.12938303734236248
Information Type Recall (positive class, multi-type, macro): 0.300379923121991
Information Type F1 (positive class, multi-type, macro): 0.1324090052239506
Information Type Accuracy (overall, multi-type, macro): 0.857876987313313
High Importance Information Type Precision (positive class, multi-type, macro): 0.028370935087855268
High Importance Information Type Recall (positive class, multi-type, macro): 0.3148148148148148
High Importance Information Type F1 (positive class, multi-type, macro): 0.04990061617968595
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8910925539318023
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2159648392747972
Low Importance Information Type Recall (positive class, multi-type, macro): 0.28800715881385636
Low Importance Information Type F1 (positive class, multi-type, macro): 0.20313048154760602

elmo_all_tfidf**task2**

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8294065016403221

daytonOhioShooting2020

Information Type Precision (positive class, multi-type, macro): 0.05823212540438976

Information Type Recall (positive class, multi-type, macro): 0.0510989010989011

Information Type F1 (positive class, multi-type, macro): 0.05363966135801187

Information Type Accuracy (overall, multi-type, macro): 0.8830769230769231

High Importance Information Type Precision (positive class, multi-type, macro): 0.0

High Importance Information Type Recall (positive class, multi-type, macro): 0.0

High Importance Information Type F1 (positive class, multi-type, macro): 0.0

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9214035087719298

Low Importance Information Type Precision (positive class, multi-type, macro): 0.10814537575100956

Low Importance Information Type Recall (positive class, multi-type, macro): 0.09489795918367347

Low Importance Information Type F1 (positive class, multi-type, macro): 0.09961651395059347

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8502255639097743

elPasoWalmartShooting2020

Information Type Precision (positive class, multi-type, macro): 0.0723703882324572

Information Type Recall (positive class, multi-type, macro): 0.06080336411397755

Information Type F1 (positive class, multi-type, macro): 0.05881289469910914

Information Type Accuracy (overall, multi-type, macro): 0.884358403289361

High Importance Information Type Precision (positive class, multi-type, macro): 0.0

High Importance Information Type Recall (positive class, multi-type, macro): 0.0

High Importance Information Type F1 (positive class, multi-type, macro): 0.0

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9255753526354863

Low Importance Information Type Precision (positive class, multi-type, macro): 0.13440214957456337

Low Importance Information Type Recall (positive class, multi-type, macro): 0.11292053335452974

Low Importance Information Type F1 (positive class, multi-type, macro): 0.10922394729834554

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8490295895641106

gilroygarlicShooting2020

Information Type Precision (positive class, multi-type, macro): 0.11256379826883657

Information Type Recall (positive class, multi-type, macro): 0.14571404862666998

Information Type F1 (positive class, multi-type, macro): 0.06896377674276127

Information Type Accuracy (overall, multi-type, macro): 0.8715220949263501

High Importance Information Type Precision (positive class, multi-type, macro): 0.0

High Importance Information Type Recall (positive class, multi-type, macro): 0.0

High Importance Information Type F1 (positive class, multi-type, macro): 0.0

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9322695035460993

Low Importance Information Type Precision (positive class, multi-type, macro): 0.20904705392783934

Low Importance Information Type Recall (positive class, multi-type, macro): 0.27061180459238715

Low Importance Information Type F1 (positive class, multi-type, macro): 0.1280755853794138

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.819452887537994

hurricaneBarry2020

Information Type Precision (positive class, multi-type, macro): 0.017334304466075617

Information Type Recall (positive class, multi-type, macro): 0.4155677655677656

elmo_all_tfidf

task2

Information Type F1 (positive class, multi-type, macro): 0.0328747507174944
Information Type Accuracy (overall, multi-type, macro): 0.7475807774315236
High Importance Information Type Precision (positive class, multi-type, macro): 0.02181818181818182
High Importance Information Type Recall (positive class, multi-type, macro): 0.49444444444444446
High Importance Information Type F1 (positive class, multi-type, macro): 0.04146384479717812
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7562189054726366
Low Importance Information Type Precision (positive class, multi-type, macro): 0.013490981021413159
Low Importance Information Type Recall (positive class, multi-type, macro): 0.34795918367346934
Low Importance Information Type F1 (positive class, multi-type, macro): 0.025512670077765497
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7401766676819982

indonesiaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.16645396937158952
Information Type Recall (positive class, multi-type, macro): 0.2459070839519766
Information Type F1 (positive class, multi-type, macro): 0.1622563359170336
Information Type Accuracy (overall, multi-type, macro): 0.8155482815057282
High Importance Information Type Precision (positive class, multi-type, macro): 0.2509194181104936
High Importance Information Type Recall (positive class, multi-type, macro): 0.31000174703004896
High Importance Information Type F1 (positive class, multi-type, macro): 0.24108070983070984
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8074468085106382
Low Importance Information Type Precision (positive class, multi-type, macro): 0.09405501330967168
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1909688013136289
Low Importance Information Type F1 (positive class, multi-type, macro): 0.09469258684816817
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8224924012158056

keralaFloods2020

Information Type Precision (positive class, multi-type, macro): 0.12830666969115728
Information Type Recall (positive class, multi-type, macro): 0.25393133828899095
Information Type F1 (positive class, multi-type, macro): 0.10286243169960858
Information Type Accuracy (overall, multi-type, macro): 0.6909305528231359
High Importance Information Type Precision (positive class, multi-type, macro): 0.0
High Importance Information Type Recall (positive class, multi-type, macro): 0.0
High Importance Information Type F1 (positive class, multi-type, macro): 0.0
High Importance Information Type Accuracy (overall, multi-type, macro): 0.690537084398977
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2382838151407207
Low Importance Information Type Recall (positive class, multi-type, macro): 0.471586771108126
Low Importance Information Type F1 (positive class, multi-type, macro): 0.19103023029927307
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6912678114724151

myanmarFloods2020

Information Type Precision (positive class, multi-type, macro): 0.08804776777565361
Information Type Recall (positive class, multi-type, macro): 0.20761606019784973
Information Type F1 (positive class, multi-type, macro): 0.09750884889084332
Information Type Accuracy (overall, multi-type, macro): 0.7657937806873977
High Importance Information Type Precision (positive class, multi-type, macro): 0.031878233321537504
High Importance Information Type Recall (positive class, multi-type, macro): 0.21982281284606864
High Importance Information Type F1 (positive class, multi-type, macro): 0.05086932638383219

elmo_all_tfidf**task2**

High Importance Information Type Accuracy (overall, multi-type, macro): 0.7170212765957445
Low Importance Information Type Precision (positive class, multi-type, macro): 0.13619308302203884
Low Importance Information Type Recall (positive class, multi-type, macro): 0.19715312935651919
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13748558246828144
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8075987841945288

papuaNewguineaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.15088693472203055
Information Type Recall (positive class, multi-type, macro): 0.19027824027824028
Information Type F1 (positive class, multi-type, macro): 0.1435244720689475
Information Type Accuracy (overall, multi-type, macro): 0.7921183961452418
High Importance Information Type Precision (positive class, multi-type, macro): 0.05125
High Importance Information Type Recall (positive class, multi-type, macro): 0.1553030303030303
High Importance Information Type F1 (positive class, multi-type, macro): 0.07706766917293233
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7266964951528708
Low Importance Information Type Precision (positive class, multi-type, macro): 0.23629002162662818
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2202569916855631
Low Importance Information Type F1 (positive class, multi-type, macro): 0.20048744597981766
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8481943112815594

siberianWildfires2020

Information Type Precision (positive class, multi-type, macro): 0.08619522885278506
Information Type Recall (positive class, multi-type, macro): 0.22568592697624956
Information Type F1 (positive class, multi-type, macro): 0.11304760494894503
Information Type Accuracy (overall, multi-type, macro): 0.8067185978578382
High Importance Information Type Precision (positive class, multi-type, macro): 0.044727343673787924
High Importance Information Type Recall (positive class, multi-type, macro): 0.2523809523809524
High Importance Information Type F1 (positive class, multi-type, macro): 0.06788020033310381
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7946554149085795
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1217391304347826
Low Importance Information Type Recall (positive class, multi-type, macro): 0.20280447662936144
Low Importance Information Type F1 (positive class, multi-type, macro): 0.15176252319109462
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8170584689572031

typhoonKrosa2020

Information Type Precision (positive class, multi-type, macro): 0.013850696067567472
Information Type Recall (positive class, multi-type, macro): 0.4
Information Type F1 (positive class, multi-type, macro): 0.026244911350903587
Information Type Accuracy (overall, multi-type, macro): 0.7079894354572467
High Importance Information Type Precision (positive class, multi-type, macro): 0.005309700339820822
High Importance Information Type Recall (positive class, multi-type, macro): 0.13888888888888887
High Importance Information Type F1 (positive class, multi-type, macro): 0.009847561514139862
High Importance Information Type Accuracy (overall, multi-type, macro): 0.6909871244635193
Low Importance Information Type Precision (positive class, multi-type, macro): 0.021171549548493172
Low Importance Information Type Recall (positive class, multi-type, macro): 0.6238095238095239
Low Importance Information Type F1 (positive class, multi-type, macro): 0.040299782639558204
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7225628448804414

typhoonLekima2020

Information Type Precision (positive class, multi-type, macro): 0.03525809188566075
Information Type Recall (positive class, multi-type, macro): 0.23445885509838996
Information Type F1 (positive class, multi-type, macro): 0.05842874412759253
Information Type Accuracy (overall, multi-type, macro): 0.7871084139740857
High Importance Information Type Precision (positive class, multi-type, macro): 0.026074579150667795
High Importance Information Type Recall (positive class, multi-type, macro): 0.22674418604651161
High Importance Information Type F1 (positive class, multi-type, macro): 0.044506668987996795
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7846481876332624
Low Importance Information Type Precision (positive class, multi-type, macro): 0.04312967422994042
Low Importance Information Type Recall (positive class, multi-type, macro): 0.24107142857142858
Low Importance Information Type F1 (positive class, multi-type, macro): 0.07036195139010316
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.789217179409077

whaleyBridgeCollapse2020

Information Type Precision (positive class, multi-type, macro): 0.19461415025359868
Information Type Recall (positive class, multi-type, macro): 0.4010050372247952
Information Type F1 (positive class, multi-type, macro): 0.22985644815106981
Information Type Accuracy (overall, multi-type, macro): 0.7058608058608058
High Importance Information Type Precision (positive class, multi-type, macro): 0.1798652208120959
High Importance Information Type Recall (positive class, multi-type, macro): 0.4127422877422878
High Importance Information Type F1 (positive class, multi-type, macro): 0.23312416403426392
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7079365079365078
Low Importance Information Type Precision (positive class, multi-type, macro): 0.20725608977488674
Low Importance Information Type Recall (positive class, multi-type, macro): 0.39094453678123003
Low Importance Information Type F1 (positive class, multi-type, macro): 0.22705554882261775
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7040816326530612

TREC-IS 2020-A Task 2 Notebook Evaluator v2.4

Run: elmo_all_tfidf (elmo_all_tfidf_brf.2020A.task1.run)

 EVALUATION: Information Type Categorization (Multi-type)
 Per Information Type Performance

Request-GoodsServices				
	precision	recall	f1-score	support
Other Classes	1.00	0.92	0.96	12219
Request-GoodsServices	0.00	0.25	0.00	8
avg / total	1.00	0.92	0.96	12227
Request-SearchAndRescue				
	precision	recall	f1-score	support
Other Classes	1.00	0.88	0.94	12219
Request-SearchAndRescue	0.00	0.50	0.01	8
avg / total	1.00	0.88	0.94	12227
Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	1.00	0.91	0.95	12199
Request-InformationWanted	0.00	0.07	0.00	28
avg / total	1.00	0.91	0.95	12227
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	0.93	0.97	12217
CallToAction-Volunteer	0.01	1.00	0.02	10
avg / total	1.00	0.93	0.96	12227
CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	0.99	0.95	0.97	12112

elmo_all_tfidf**task2**

CallToAction-MovePeople	0.08	0.47	0.13	115
avg / total	0.99	0.94	0.96	12227

Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	1.00	0.72	0.83	12190
Report-FirstPartyObservation	0.01	0.49	0.01	37
avg / total	0.99	0.72	0.83	12227

Report-Location				
	precision	recall	f1-score	support
Other Classes	0.74	0.77	0.76	8789
Report-Location	0.35	0.32	0.33	3438
avg / total	0.63	0.64	0.64	12227

Report-EmergingThreats				
	precision	recall	f1-score	support
Other Classes	0.98	0.67	0.79	11422
Report-EmergingThreats	0.15	0.83	0.25	805
avg / total	0.93	0.68	0.76	12227

Report-NewSubEvent				
	precision	recall	f1-score	support
Other Classes	0.98	0.61	0.76	11831
Report-NewSubEvent	0.06	0.71	0.11	396
avg / total	0.95	0.62	0.73	12227

Report-MultimediaShare				
	precision	recall	f1-score	support
Other Classes	0.90	0.47	0.62	9860
Report-MultimediaShare	0.26	0.78	0.39	2367

elmo_all_tfidf**task2**

avg / total	0.77	0.53	0.57	12227
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Report-ServiceAvailable

precision	recall	f1-score	support
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Other Classes	1.00	0.88	0.93	12188
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Report-ServiceAvailable	0.02	0.59	0.03	39
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avg / total	1.00	0.88	0.93	12227
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Other-Advice

precision	recall	f1-score	support
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Other Classes	0.99	0.86	0.92	12087
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Other-Advice	0.03	0.38	0.06	140
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avg / total	0.98	0.85	0.91	12227
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Other-Any

precision	recall	f1-score	support
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Other Classes	1.00	1.00	1.00	12227
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avg / total	1.00	1.00	1.00	12227
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